



2014 PV Performance Modeling Workshop



Photo courtesy of Semptra Energy

8:00 AM to 9:00 PM Monday, May 5, 2014
At
Biltmore Hotel, Santa Clara, California

Draft agenda:

| Start Time | Title | Presenter |
|-----------------|--|--|
| 7:00 AM | Badging and Registration Opens | |
| 8:00 AM | Welcome, Purpose, and What to Expect | Joshua Stein (SNL) |
| 8:15 AM | Solar Resource (Measurements and Datasets) | |
| 8:20:AM | Ground Irradiance Data | Justin Robinson (GroundWork Renewables) |
| 8:40 AM | Satellite Irradiance Models and Datasets | Adam Kankiewicz (Clean Power Research) |
| 9:10 AM | Plane of Array Irradiance Model Comparison | Billy Hayes (First Solar) and Clifford Hansen (Sandia) |
| 9:30 AM | Geographic Smoothing of Irradiance | Matthew Lave (Sandia) |
| 9:50 AM | Discussion | |
| 10:05 AM | Networking Break | |
| 10:30 AM | Measuring Module Performance | |
| 10:35 AM | Are Module Characterization Results Consistent? | (TBD) |
| 10:50 AM | Module Characterization Methods (TUV-PTL) | Govindasamy Tamizhmani (aka Mani) (Arizona State University) |
| 11:05 AM | Module Characterization Methods (PVEL) | TBD (PV Evolution Labs) |
| 11:20 AM | Module Characterization Methods (RETC) | TBD (Renewable Energy Test Center) |
| 11:35 AM | Module Characterization Methods (CFV) | Larry Pratt (CFV) |
| 11:50 AM | Discussion | |
| 12:00 PM | Lunch Break | |
| 1:00 PM | Measuring Module Performance (cont) | |
| 1:05 PM | Results of Module Testing Round Robin | Yingli |
| 1:20 PM | Discussion | |
| 1:35 PM | Optimizing Design with PV Performance Models | |
| 1:40 PM | Optimization strategies with PVsyst for large scale PV installations | Bruno Willmet (PVsyst) |
| 2:00 PM | Optimizing PV plants with HelioScope | Paul Gibbs (Folsom Labs) |
| 2:20 PM | Optimization of PV plants using the System Advisor Model | Aaron Dobos (NREL) |
| 2:40 PM | Discussion | |
| 3:00 PM | Networking Break | |
| 3:15 PM | Inverter Performance Models | |
| 3:20 PM | Overview and Review of Inverter Performance Models | Anton Driesse (PV Performance Lab) |
| 3:40 PM | Field Monitoring of Inverter Performance | TBD |
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| 3:55 PM | Panel Discussion on Opportunities and Requirements for Inverter Performance Models for the Future <ul style="list-style-type: none">• Panelist Presentations (30 min)• Group Discussion (30 min) | Moderator: Paul Gibbs (Folsom Labs) Panelists: Tucker Roberti (AE) Ryan LeBlanc (SMA) Final Panelists TBD |
| 4:55 PM | Wrap up and Next Steps | Clifford Hansen (Sandia) |
| 5:10 PM | Break for Dinner | |
| 7:00 PM | Evening Session on Modeling Tool Updates | |
| 7:10 PM | SunPower’s PVSIM Update | Mike Anderson (SunPower) |
| 7:25 PM | PVsyst Update | Bruno Willmet (PVsyst) |
| 7:40 PM | SAM Update | Aaron Dobos |
| 7:55 PM | HelioScope | Paul Grana (Folsom Labs) |
| 8:10 PM | TBD | TBD |
| 8:25 PM | TBD | TBD |
| 8:40 PM | TBD | TBD |
| 9:00 PM | Workshop Closing Ceremony!!! | |
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